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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/522,079	01/21/2005	Robert J. Lowles	555255012475	5833
7590 03/16/2009  John V Biernacki  EXAMINER				
Jones Day		PARDO, THUY N		
North Point 901 Lakeside Avenue Cleveland, OH 44114			ART UNIT	PAPER NUMBER
			2168	
			MAIL DATE	DELIVERY MODE
			03/16/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summany		Application No.	Applicant(s)				
		10/522,079	LOWLES ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Thuy N. Pardo	2627				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1)	Responsive to communication(s) filed on 16 Ja	nuary 2009					
<i>′</i> —	• • • • • • • • • • • • • • • • • • • •	action is non-final.					
3)	, <del>-</del>						
<i>′</i> —	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-6 and 8-72</u> is/are pending in the application.						
•	4a) Of the above claim(s) <u>29-70</u> is/are withdrawn from consideration.						
5)							
6)🖂	6)⊠ Claim(s) <u>1-6,9-28,71 and 72</u> is/are rejected.						
· · · · · · · · · · · · · · · · · · ·	Claim(s) 8 is/are objected to.						
8)	Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers							
9) The specification is objected to by the Examiner.							
•	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
<i>,</i> —	Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	under 35 U.S.C. § 119						
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
2)  Notic 3)  Infor	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	te				

## **DETAILED ACTION**

1. Applicant's Amendment filed on January 16, 2009 in response to Examiner's Office Action has been reviewed. Claims 1-6 and 8-72 are pending in the application. Claims 29-70 are withdrawn and claim 7 is canceled. This Office Action is made Final.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-6, 9-28, 71 and 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nelson et al. (hereinafter "Nelson") US Patent No. 5,937,422 as applied to claims 1-28, 71 and 72 above, and further in view of de Savolainen US Patent Application No. 2002/0126097.

Referring to claim 1, Nelson teaches a method of building a custom word list for use in text operations, comprising the steps of:

scanning a collection of text items to identify words in the text items ["input text = DOG, WOLF", see fig. 4; each word in the document is stemmed to its root form, col. 5, lines 41-51];

assigning a weighting to each identified word [each word in the input text is given an input-word score, col. 5, lines 52-55; the words in the final word list are ranked in order according to a final word score, col. 7, lines 24-26; fig. 3]; and

storing [inherent in the system when it performs this method for each document in a database, col. 8, lines 45-47] each identified word and its corresponding weighting [fig. 6; col. 8, lines 15-47], and calculating the weighting for each identified word based on the source of the text item in which the word was identified [canine, 0.97; dog, 4,4365; domesticate, 0.474; mammal, 0.314, see fig. 5-6].

However, Nelson does not explicitly teach generating these functions on the electronic device although it has the same functionality of creating a word list score to each input words of the input text [see the abstract of Nelson]. Savolainen teaches inputting alphanumeric data into an electronic device via a reduced keyboard using context related dictionaries [see the abstract; fig. 4B; 0034-0036].

Therefore, it would have been obvious to one of ordinary skill in the Data Processing art at the time of the invention to have modified the communication service system of Nelson wherein the building for the word list based on the score to each input by incorporating the teachings of Savolainen as an essential means enhance the versatility of Nelson's system by generating these functions on the electronic device as an essential means to increase the flexibility and functionality of performing tasks by remote processing devices.

Referring to claim 2, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the collection of text items comprises text items stored at a computer system [70 of fig. 7].

Referring to claim 3, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the collection of text items comprises at least one type of text item selected from the group consisting of: sent messages, documents, acronym lists, and existing word lists [fig. 1].

Referring to claim 4, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches that the step of assigning a weighting comprises the step of: calculating a frequency of occurrence of each identified word [col. 6, lines 2-20; [each word in the input text is given an input-word score, col. 5, lines 52-55; the words in the final word list are ranked in order according to a final word score, col. 7, lines 24-26; fig. 3].

Referring to claim 5, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches determining a number of occurrences of each identified word in the collection of text items; identifying a maximum number of occurrences and calculating a frequency of occurrence of each identified word based on a number of occurrences of the identified word and the maximum number of occurrences [col. 6, lines 44-63].

Referring to claim 6, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches adjusting the weighting of an identified word when the word is used in text operations on the electronic device [adjust the weight of words to final word score, col. 7, lines 24-26; fig. 3, 5-6].

Referring to claim 9, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches categorizing the identified words into categories; and storing an indicator of the category of each identified word with the word and corresponding weighting [see fig. 12].

Referring to claim 10, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the categories are selected from the group consisting of: address, name, hyperlink, recurring word grouping, different language categories, and user added words [fig. 12].

Referring to claim 11, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches that the collection of text items comprises an existing word list having words and predefined weightings; the step of assigning comprises the step of converting the predefined weightings into converted weightings for each word in the existing word list and the step of storing comprises the step of storing each word in the existing word list and its corresponding converted weighting [each word in the input text is given an input-word score,

col. 5, lines 52-55; the words in the final word list are ranked in order according to a final word score, col. 7, lines 24-26; fig. 3].

Referring to claim 12, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches normalizing the predefined weightings [normalized score based on the log of a score within a range of numbers zero to 255, col. 19, lines 37 to col. 20, lines 7].

Referring to claim 13, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches applying a predetermined weighting factor to the predefined weightings [col. 17, lines 51-65; col. 18, lines 58-67; col. 31, lines 1-4].

Referring to claim 14, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches integrating each identified word and its corresponding weighting and an existing word list having words and predefined weightings [col. 17, lines 51-65; col. 18, lines 58-67; col. 31, lines 1-4].

Referring to claim 15, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches converting the weighting of each identified word into a converted weighting.

Referring to claim 16, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches converting the predefined weightings into converted weightings [see fig. 4; col. 7, lines 37 to col. 8, lines 11].

Referring to claim 17, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches that the step of integrating comprises the step of converting the weighting of each identified word and the predefined weighting of each word in the existing word list into a converted weighting [see fig. 4; col. 7, lines 37 to col. 8, lines 11].

Referring to claim 18, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches determining whether any of the identified words occur in the existing word list; and assigning a resolved weighting to identified words that occur in the existing word list [fig. 5-6; col. 6, lines 35-62].

Referring to claim 19, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches that the resolved weighting is the weighting of the identified word [fig. 5-6; col. 6, lines 35-62].

Referring to claim 20, Nelson and Savolainen teach the invention substantially as claimed. Nelson further teaches that the resolved weighting is based on the weighting of the identified word and the predefined weighting of the identified word in the existing word list [fig. 5-6; col. 6, lines 35-62].

Referring to claim 21, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches receiving a selection input from the user to select text items to be included in the collection of text items [fig. 4b; 5].

Referring to claim 22, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches mapping each identified word to a keystroke sequence on the electronic device and storing the identified words and corresponding weightings and keystroke sequences at the electronic device [ab; 0027-0031].

Referring to claim 23, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches mapping the user input word to a keystroke sequence on the electronic device [ab; 0027; 0029-0031].

Referring to claim 24, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches a first data store and a second data store [local and remote memory storage devices, 0080].

Referring to claim 25, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the second data store is implemented in a single memory component [0080; fig. 7].

Referring to claim 26, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the first data store comprises storage areas in a plurality of memory components [0080; fig. 7].

Page 9

Referring to claim 27, Nelson and Savolainen teach the invention substantially as claimed. De Campos further teaches a keyboard mapper [fig. 1] for mapping each identified word to a keystroke sequence on the electronic device [handheld device, ab; 0029].

Referring to claim 28, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches receiving the identified words and their corresponding weightings from the second data store and to store the identified words and their corresponding weightings at the electronic device [0029, 0032, 0044-0045; 0050].

Referring to claim 71, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the collection of text items originates from the source [0074; fig. 12].

Referring to claim 72, Nelson and Savolainen teach the invention substantially as claimed. Savolainen further teaches that the source is a sent message [sending messages between the terminal and the server, see fig. 13].

3. Claim 8 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

As to claim 8, the feature that text item sources include a user text item source and an external text item source, and wherein text items from the user text item source are assigned a higher weighting than text items from the external text item source, taken together with other limitations of claims 1 or 24 was not disclosed by the prior art of record.

Response to Arguments

4. Applicant's arguments filed January 16, 2006 have been fully considered but they are not persuasive.

Applicant argues that the cited references do not teach assigning a weighting comprises the step of calculating the weighting for each identified word based on the source of the text item in which the word was identified.

Examiner respectfully disagrees. Examiner believes that Nelson teaches these limitations. Nelson teaches assigning a weighting to each identified word by giving each word in the input text an input-word score [col. 5, lines 52-55] and ranking the words in the final word list in order according to a final word score [col. 7, lines 24-26; fig. 3], and calculating the weighting for each

Application/Control Number: 10/522,079

Art Unit: 2627

identified word based on the source of the text item in which the word was identified [canine, 0.97; dog, 4,4365; domesticate, 0.474; mammal, 0.314, see fig. 5-6].

Page 11

Applicant argues that the cited references do not teach adjusting the weighting of an identified word. Examiner believes that Nelson teaches this feature. Nelson teaches calculating the weighting for each identified word based on the source of the text item in which the word was identified [canine, 0.97; dog, 4,4365; domesticate, 0.474; mammal, 0.314, see fig. 5-6 adjusting the weight of words to final word score [col. 7, lines 24-26; fig. 3, 5-6].

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thuy N. Pardo whose telephone number is 571-272-4082. The examiner can normally be reached on Mon-Thur.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/522,079 Page 12

Art Unit: 2627

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/Thuy N. Pardo/ Primary Examiner, Art Unit 2627